

CLAIMS

1. A drying apparatus comprising a cylindrical rotatable drum (1), the inside of which is provided with a steam pipe system consisting of heat transfer elements (7), to be rotated with the drum, the heat transfer elements (7) being detachable from and mountable on the drum (1), whereby material to be dried is fed to a first end of the drying apparatus, the material being arranged to be discharged through a second end of the drying apparatus, **characterized** in that the heat transfer element (7) is formed as a uniform packet of several longitudinal pipes (8) and connecting pipes (9) between them in such a way that the structure of the heat transfer element is formed self-supporting and that this self-supporting packet is attached to the drum (1) frame with fastening that allows heat expansion.

2. A drying apparatus according to claim 1, **characterized** in that the heat transfer element (7) is formed as a sector-shaped packet in such a way that the heat transfer element (7) consists of several longitudinal pipes (8) at the edges of the element and of connecting pipes (9) connecting them together.

3. A drying apparatus according to claim 1 or 2, **characterized** in that there is a two-part support structure (11) in connection with the heat transfer element (7) in such a way that the longitudinal pipes remain between the halves of the support structure (11).

4. A drying apparatus according to any one of the preceding claims, **characterized** in that an abrasion resistant plate (27) is arranged between the heat transfer element (7) and the drum (1).

5. A drying apparatus according to any of the preceding claims, **characterized** in that there is a steam pressure vessel (17) at the end of the drum (1) of the steam drier and at least one steam manifold (14) at the end of the heat transfer element (7), and that the steam manifold (14) is connected to the steam pressure vessel (17) with a connecting pipe (15).

6. A drying apparatus according to claim 5, **characterized** in that the diameter of the steam pressure vessel (17) is so great that it extends to the area of the heat transfer elements (7).

7. A drying apparatus according to claim 5 or 6, **characterized** in that the steam drier comprises a protection plate (25) for protecting the connecting pipe (15).